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nvidia windows compute

Intel Core i9-13900K testing with a ASUS PRIME Z790-P WIFI (0602 BIOS) and NVIDIA GeForce RTX 3080 10GB on Microsoft Windows 11 Pro Build 22621 via the Phoronix Test Suite.

Test Systems:

RTX 3090: Windows 11

Processor: Intel Core i9-13900K @ 3.00GHz (24 Cores / 32 Threads), Motherboard: ASUS PRIME Z790-P WIFI (0602 BIOS), Memory: 2 x 16384 MB 6000MHz Corsair CMK32GX5M2B6000C36, Disk: 1908GB SOLIDIGM SSDPFKKW020X7, Graphics: NVIDIA GeForce RTX 3090 24GB, Audio: HD Audio Device + NVIDIA HD Audio, Monitor: ASUS V8U, Network: Bluetooth Device (Personal Area)

OS: Microsoft Windows 11 Pro Build 22621, Kernel: 10.0.22621.963 (x86_64), Display Driver: 527.56 (31.0.15.2756), Compiler: GCC 8.3.0, File-System: NTFS, Screen Resolution: 3840x2160

Processor Notes: CPU Microcode: 000000000E010000
Security Notes: VBS: Enabled and running + HVCI: Running + MBEC: Available

RTX 3080: Windows 11

Processor: Intel Core i9-13900K @ 3.00GHz (24 Cores / 32 Threads), Motherboard: ASUS PRIME Z790-P WIFI (0602 BIOS), Memory: 2 x 16384 MB 6000MHz Corsair CMK32GX5M2B6000C36, Disk: 1908GB SOLIDIGM SSDPFKKW020X7, Graphics: NVIDIA GeForce RTX 3080 10GB, Audio: HD Audio Device + NVIDIA HD Audio, Monitor: ASUS V8U, Network: Bluetooth Device (Personal Area)

OS: Microsoft Windows 11 Pro Build 22621, Kernel: 10.0.22621.963 (x86_64), Display Driver: 527.56 (31.0.15.2756), Compiler: GCC 8.3.0, File-System: NTFS, Screen Resolution: 3840x2160

Processor Notes: CPU Microcode: 000000000E010000
Security Notes: VBS: Enabled and running + HVCI: Running + MBEC: Available

	RTX 3090: Windows 11	RTX 3080: Windows 11
Blender - BMW27 - NVIDIA CUDA (sec)	**10.48**	**12.35**
Normalized	100%	84.86%
Standard Deviation	0.3%	0.5%
Blender - BMW27 - NVIDIA OptiX (sec)	**6.12**	**7.05**
Normalized	100%	86.81%
Standard Deviation	3.6%	1%
Blender - Classroom - NVIDIA CUDA (sec)	**20.52**	**24.59**
Normalized	100%	83.45%
Standard Deviation	0.2%	0.5%
Blender - Fishy Cat - NVIDIA CUDA (sec)	**22.13**	**26.27**
Normalized	100%	84.24%
Standard Deviation	0.7%	1.6%
Blender - Barbershop - NVIDIA CUDA (sec)	**88.22**	**104.44**
Normalized	100%	84.47%
Standard Deviation	0.3%	0.3%
Blender - Classroom - NVIDIA OptiX (sec)	**14.57**	**16.95**
Normalized	100%	85.96%
Standard Deviation	0.1%	0.4%
Blender - Fishy Cat - NVIDIA OptiX (sec)	**10.44**	**12.08**
Normalized	100%	86.42%
Standard Deviation	2.4%	0.1%
Blender - Barbershop - NVIDIA OptiX (sec)	**52.26**	**61.45**
Normalized	100%	85.04%
Standard Deviation	0.3%	0.2%
Blender - Pabellon Barcelona - NVIDIA CUDA (sec)	**49.66**	**60.73**
Normalized	100%	81.77%
Standard Deviation	0.2%	0.1%
Blender - Pabellon Barcelona - NVIDIA OptiX (sec)	**16.18**	**19.36**
Normalized	100%	83.57%
Standard Deviation	0.6%	0.4%
Chaos Group V-RAY - NVIDIA RTX GPU (vrays)	**2825**	**2342**
Normalized	100%	82.9%
Standard Deviation	0.1%	0.6%
Chaos Group V-RAY - NVIDIA CUDA GPU (vpaths)	**2091**	**1783**
Normalized	100%	85.27%
Standard Deviation	0%	0.1%
FAHBench (Ns/Day)	**242.6347**	**241.9267**

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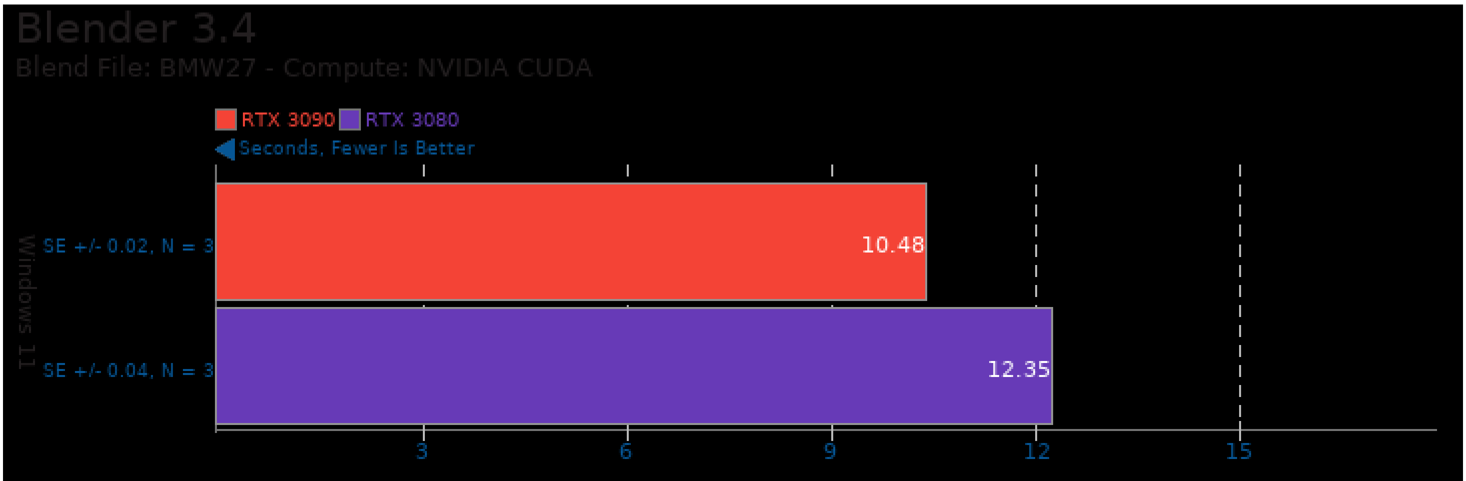
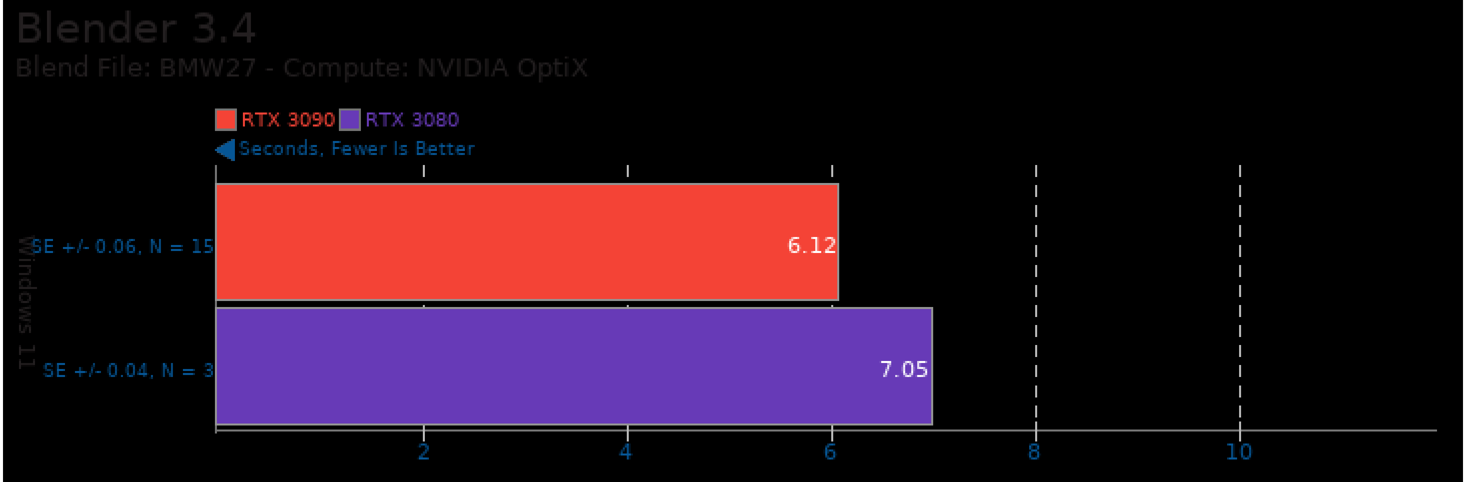
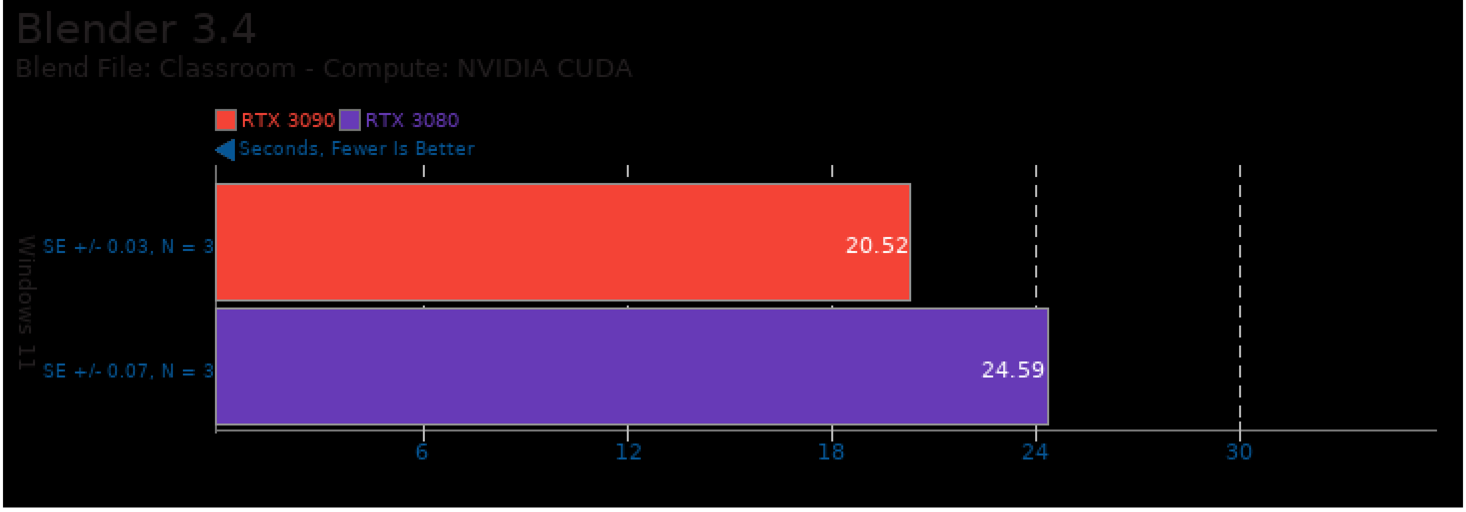
Normalized	100%	99.71%
Standard Deviation	3.8%	0.8%
Hashcat - MD5 (H/s)	**71837033333**	**60704666667**
Normalized	100%	84.5%
Standard Deviation	0.3%	0.2%
Hashcat - SHA1 (H/s)	**22792600000**	**19182000000**
Normalized	100%	84.16%
Standard Deviation	0.1%	0.2%
Hashcat - 7-Zip (H/s)	**1134800**	**976633**
Normalized	100%	86.06%
Standard Deviation	0.6%	1.1%
Hashcat - SHA-512 (H/s)	**2862100000**	**2409200000**
Normalized	100%	84.18%
Standard Deviation	0.1%	0.1%
Hashcat - T.R.X (H/s)	**839100**	**716100**
Normalized	100%	85.34%
Standard Deviation	0.3%	0.7%
OctaneBench - Total Score (Score)	**663.425984**	**553.473864**
Normalized	100%	83.43%



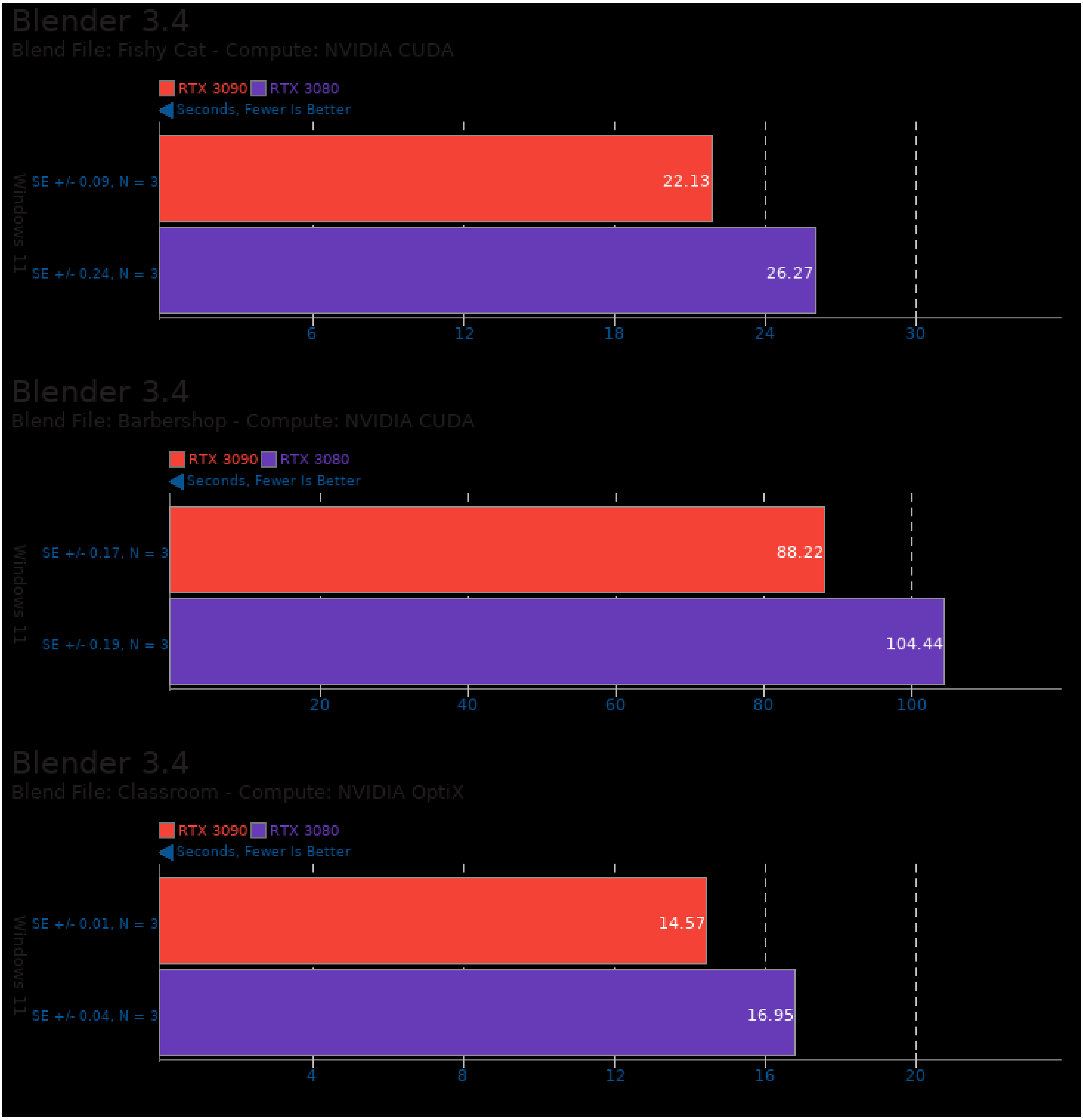
Blender 3.4
Blend File: BMW27 - Compute: NVIDIA CUDA
RTX 3090
RTX 3080
Seconds, Fewer Is Better
Windows 11
SE +/- 0.02, N = 3
10.48
SE +/- 0.04, N = 3
12.35
3
6
9
12
15



Blender 3.4
Blend File: BMW27 - Compute: NVIDIA OptiX
RTX 3090
RTX 3080
Seconds, Fewer Is Better
Windows 11
SE +/- 0.06, N = 15
6.12
SE +/- 0.04, N = 3
7.05
2
4
6
8
10



Blender 3.4
Blend File: Classroom - Compute: NVIDIA CUDA
RTX 3090
RTX 3080
Seconds, Fewer Is Better
Windows 11
SE +/- 0.03, N = 3
20.52
SE +/- 0.07, N = 3
24.59
6
12
18
24
30


Blender 3.4
Blend File: Fishy Cat - Compute: NVIDIA CUDA
RTX 3090
RTX 3080
Seconds, Fewer Is Better
Windows 11
SE +/- 0.09, N = 3
22.13
SE +/- 0.24, N = 3
26.27
6
12
18
24
30
Blender 3.4
Blend File: Barbershop - Compute: NVIDIA CUDA
RTX 3090
RTX 3080
Seconds, Fewer Is Better
Windows 11
SE +/- 0.17, N = 3
88.22
SE +/- 0.19, N = 3
104.44
20
40
60
80
100
Blender 3.4
Blend File: Classroom - Compute: NVIDIA OptiX
RTX 3090
RTX 3080
Seconds, Fewer Is Better
Windows 11
SE +/- 0.01, N = 3
14.57
SE +/- 0.04, N = 3
16.95
4
8
12
16
20

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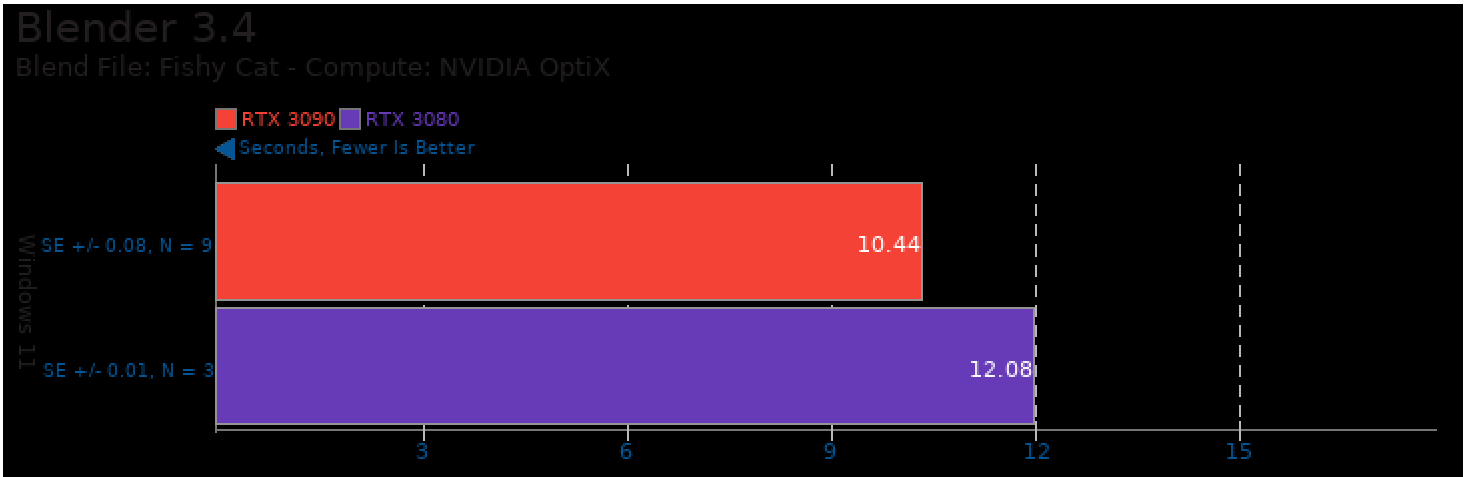

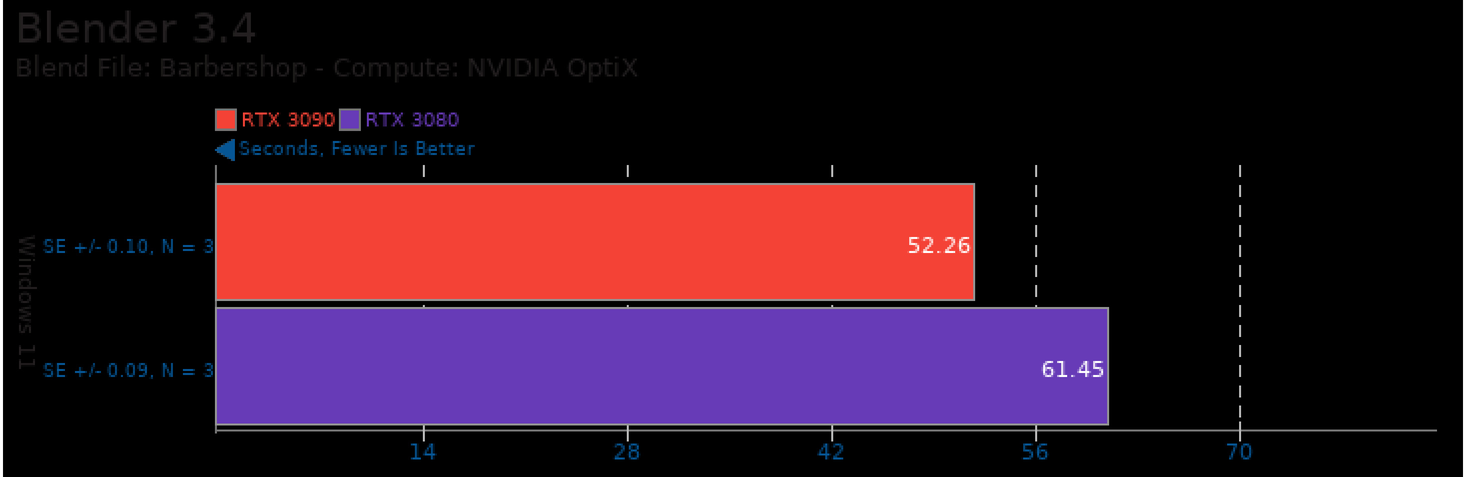

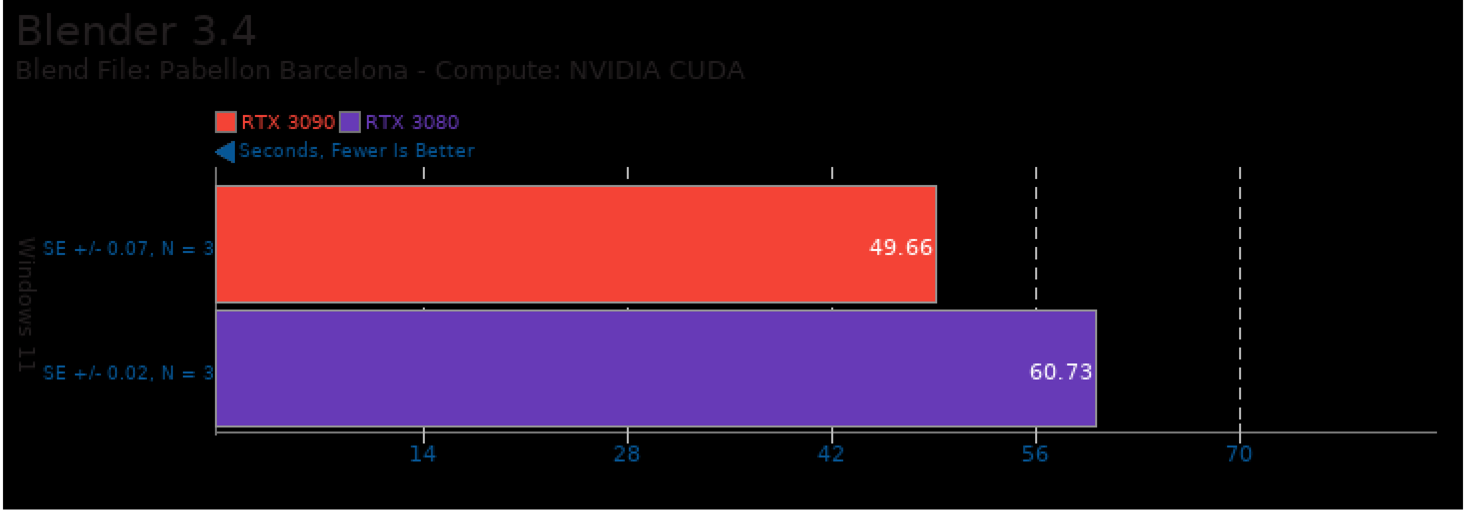

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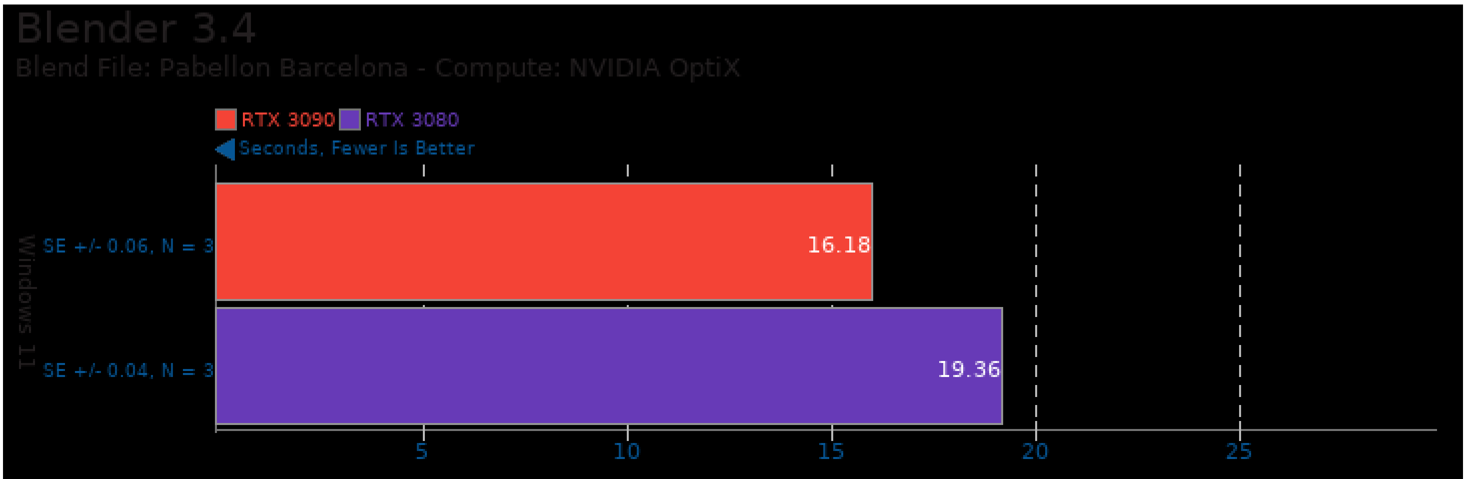

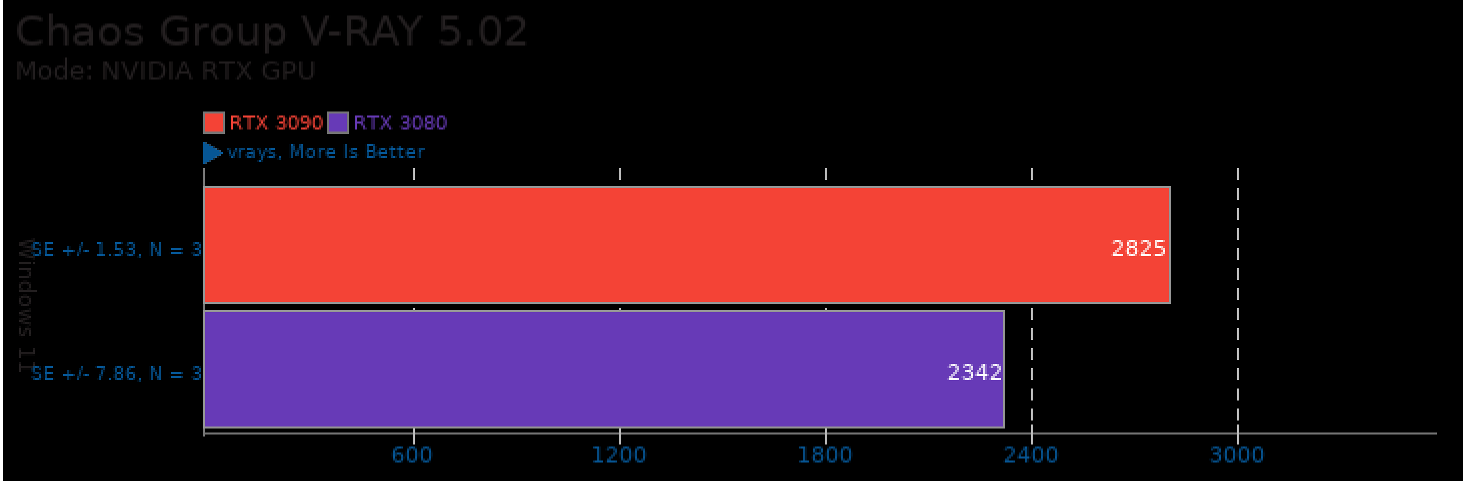

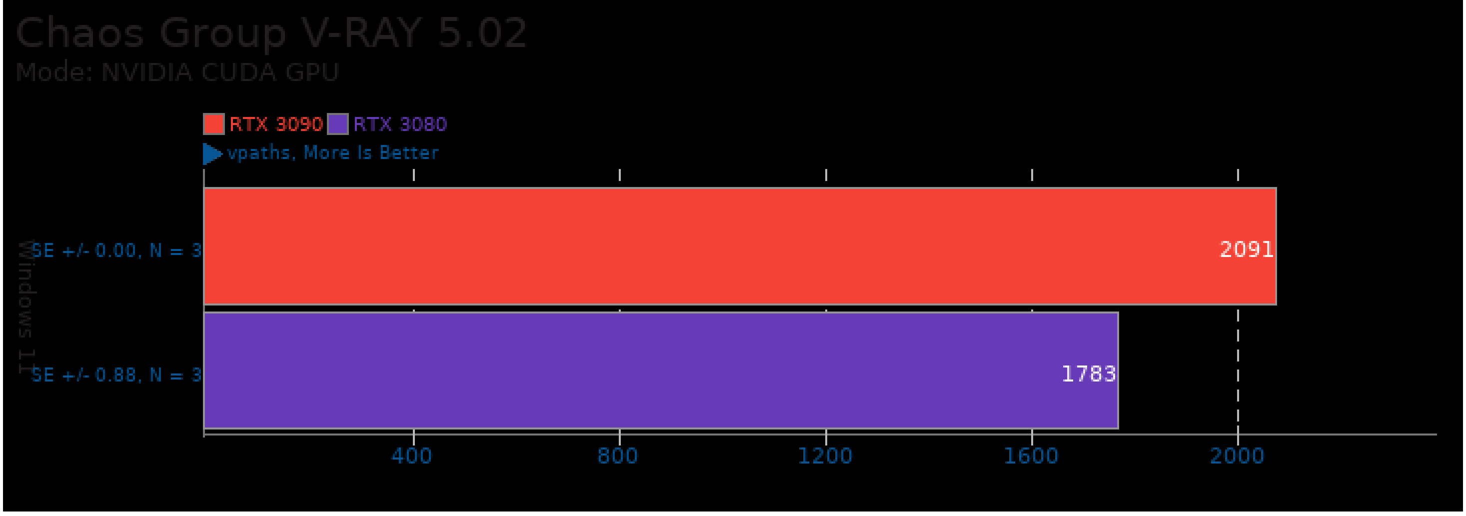

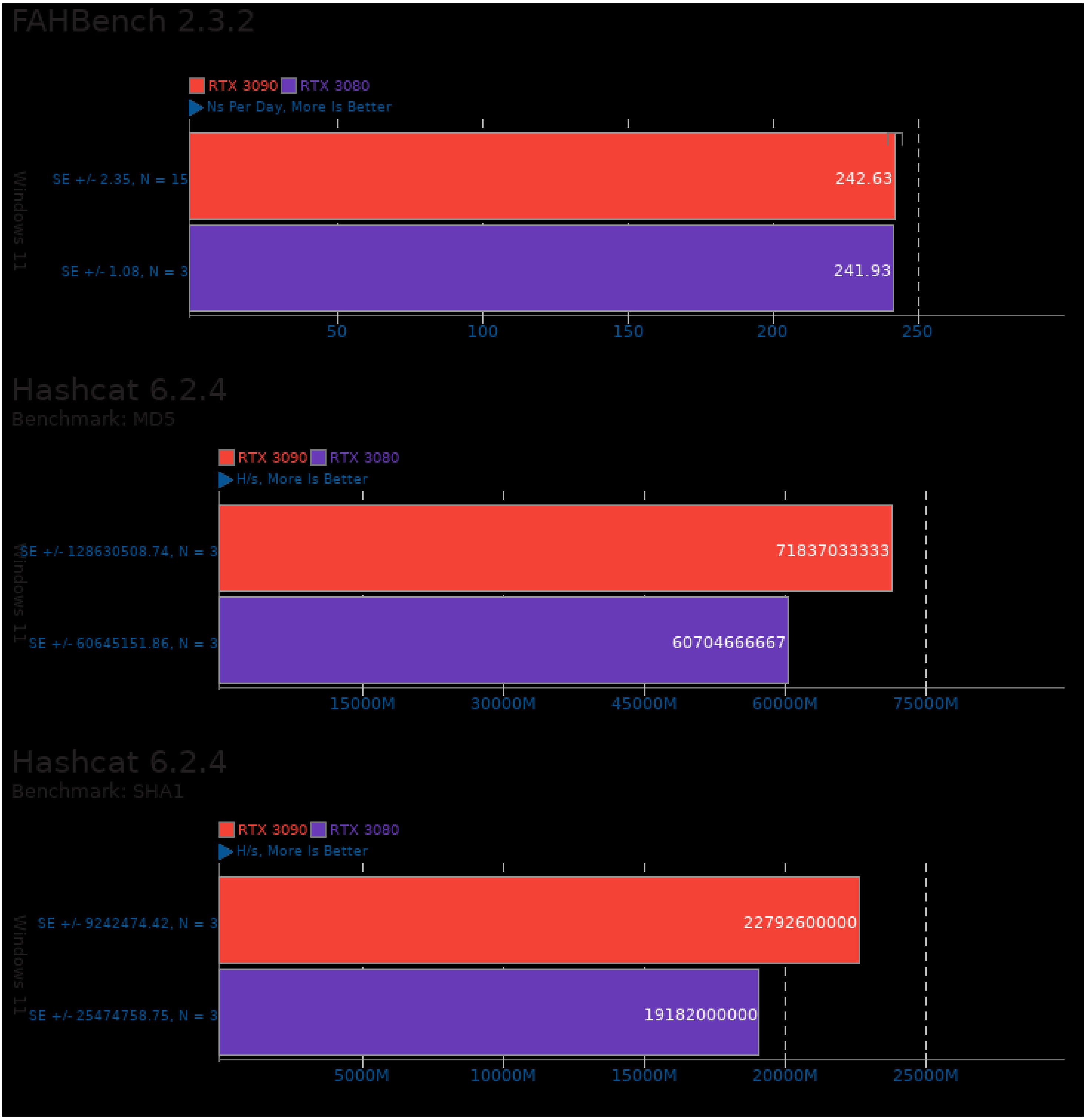
FAHBench 2.3.2
RTX 3090
RTX 3080
Ns Per Day, More Is Better
Windows 11
SE +/- 2.35, N = 15
242.63
SE +/- 1.08, N = 3
241.93
50
100
150
200
250
Hashcat 6.2.4
Benchmark: MD5
RTX 3090
RTX 3080
H/s, More Is Better
Windows 11
SE +/- 128630508.74, N = 3
71837033333
SE +/- 60645151.86, N = 3
60704666667
15000M
30000M
45000M
60000M
75000M
Hashcat 6.2.4
Benchmark: SHA1
RTX 3090
RTX 3080
H/s, More Is Better
Windows 11
SE +/- 9242474.42, N = 3
22792600000
SE +/- 25474758.75, N = 3
19182000000
5000M
10000M
15000M
20000M
25000M

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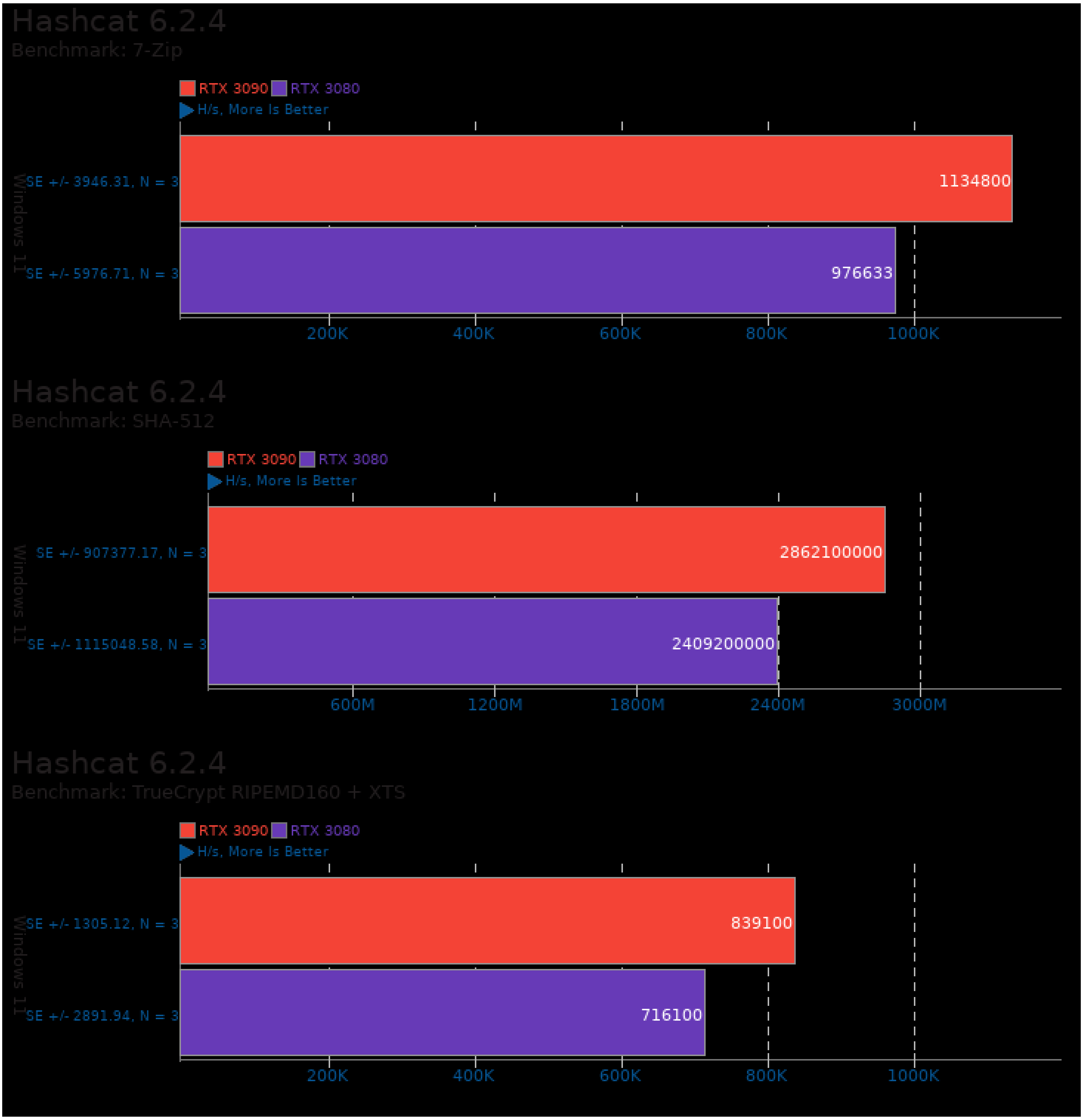
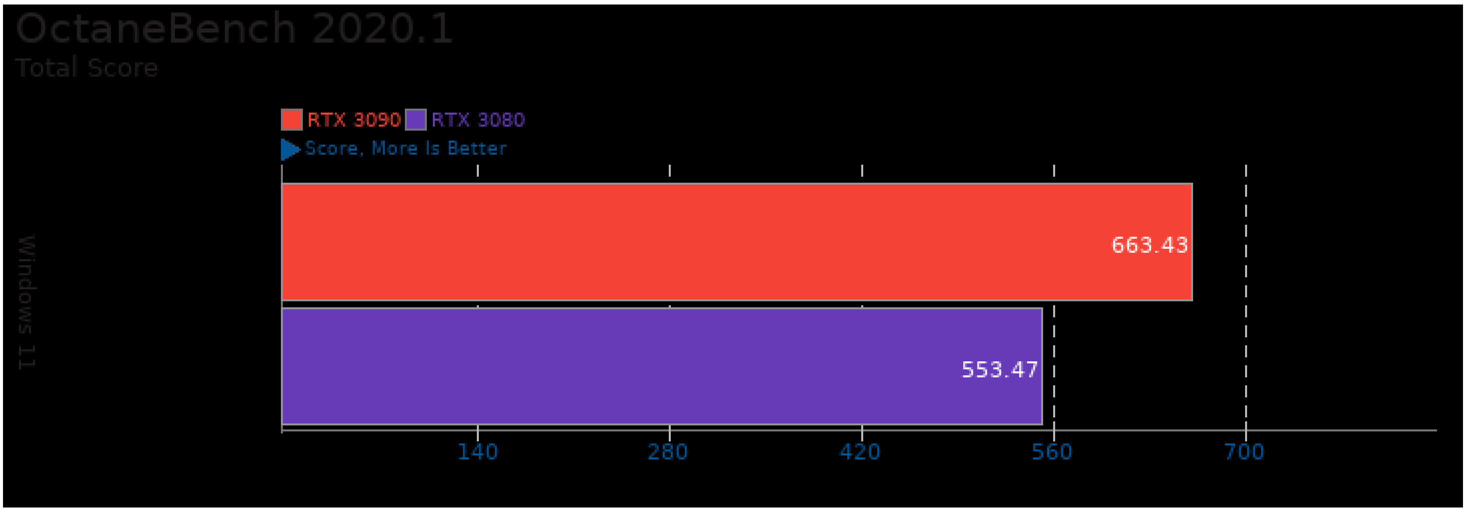
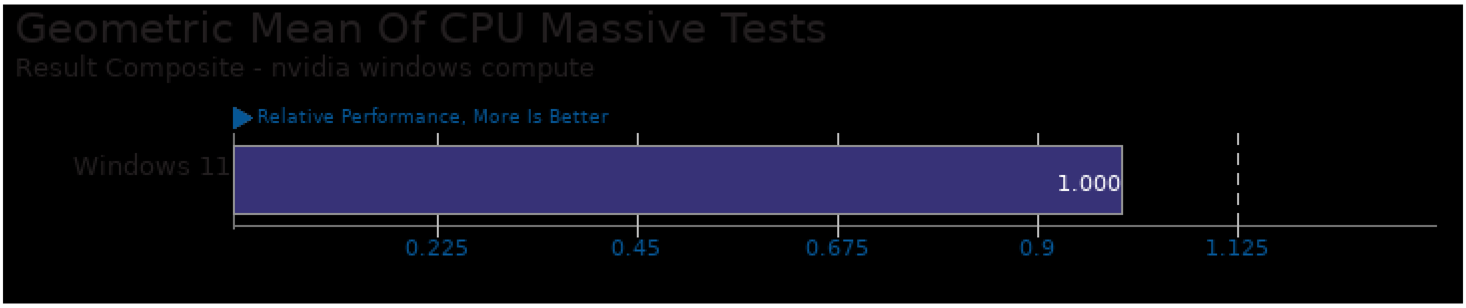
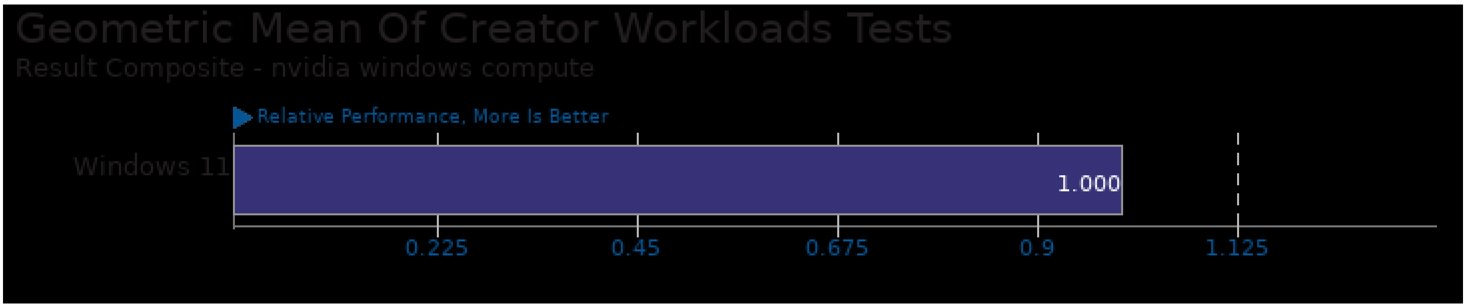



OctaneBench 2020.1
Total Score
RTX 3090
RTX 3080
Score, More Is Better
Windows 11
663.43
553.47
140
280
420
560
700

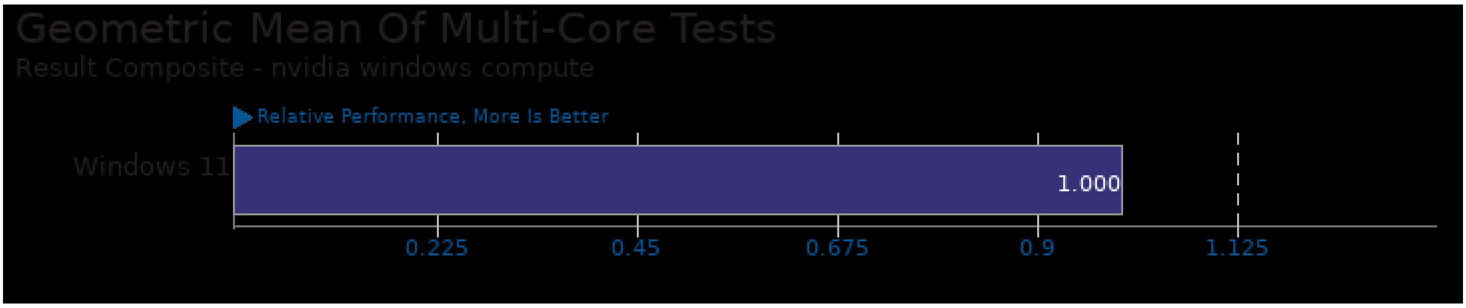
These geometric means are based upon test groupings / test suites for this result file.



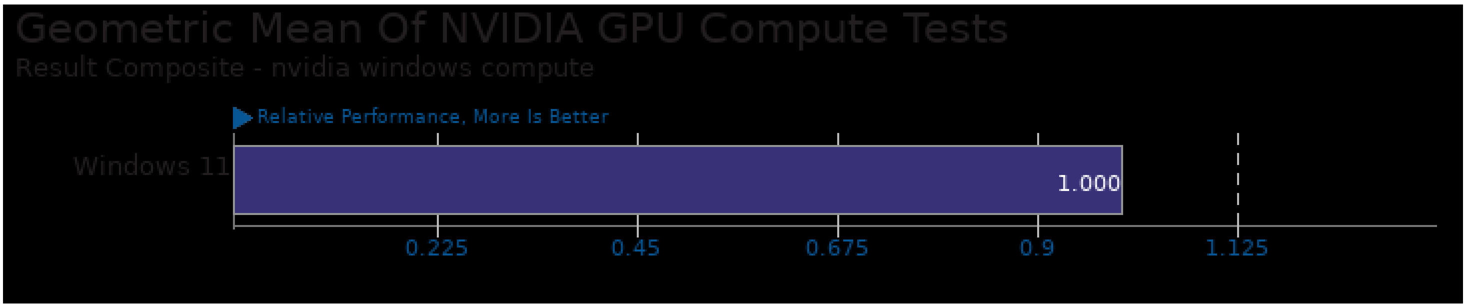
Geometric mean based upon tests: pts/v-ray and pts/blender



Geometric mean based upon tests: pts/blender and pts/v-ray



Geometric mean based upon tests: pts/blender and pts/v-ray



Geometric mean based upon tests: pts/hashcat, pts/fahbench, pts/octanebench, pts/v-ray and pts/blender

Geometric mean based upon tests: pts/blender and pts/v-ray

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 10:23.